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covered both the discrete fourier transform and the fast fourier transform their combined use is described for appropriate problems finally digital filters are included principally the butterworth low pass filter coverage also includes different filter orders high pass filters and the two pass filter technique the author has had experience with the four areas covered and with all of the example problems described in the text

with the rise of remote and hybrid learning there is an increasing need for flexibility around laboratory based coursework this book offers readers a guide to conducting a wide variety of chemistry and chemical engineering labs and experimental procedures that can be completed easily and safely outside of a traditional lab setting including at home it helps students and interested readers achieve hands on learning of chemistry and chemical engineering based concepts without the need for sophisticated lab equipment features a comprehensive range of labs on such topics as separation processes co₂ capture 3d printing reaction kinetics and fuel cells includes detailed information on how to perform experiments at home via virtual experimental procedures and accompanying videos uses household and readily accessible materials and provides safe material handling and disposal methods offers solution spreadsheets where experimental results can be computed and validated gives background information and relevant theory about each experiment and includes exercises at the end of each chapter provides python code and instructions on how to perform experiments including a bowling example this practical and useful guide is aimed at chemistry and chemical engineering students as well as general readers interested in running experiments in these disciplines video supplements to support comprehension of each lab and a solutions spreadsheet for chapter 1 are available for download

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